



UNITED STATES DEPARTMENT OF COMMERCE
Bureau of the Census
Washington, DC 20233-0001

MASTER FILE

SEP 12 2000

DSSD CENSUS PROCEDURES AND OPERATIONS MEMORANDUM SERIES#U-4

MEMORANDUM FOR Ruth Ann Killion
Chief, Planning, Research, and Evaluation Division

From: Howard Hogan *Howard Hogan*
Chief, Decennial Statistical Studies Division

Subject: Study Plan for the Analysis of Mobile Homes, N.21

Attached is the study plan for the Analysis of Mobile Homes, N.21. The Census 2000 Evaluation Program quality assurance process was applied to the methodology development and the study plan review process. The study plan is sound and appropriate for completeness and accuracy, and it answers its intended category questions as appropriate.

If you have questions about this study plan, please contact Xijian Jim Liu on (301) 457-8325.

Attachment (Analysis of Mobile Homes, N.21. Study Plan)

cc: Evaluations Executive Steering Committee
Keith Bennett (PRED)
Linda Brudvig
Jason Machowski
Danny Childers (DSSD)

**Census 2000 Operational Summary
Study Plan
(Final)**

I. Name of Operation

Analysis of Mobile Homes.
DSSD Census 2000 Evaluation Project N.21.

II. Project Managers

Xijian Jim Liu (DSSD), Lynn Evans(NPC), Sue Finnegan(NPC)
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III. Operational Background

A. Census 2000

The Accuracy and Coverage Evaluation (A.C.E.) measures the overall and differential coverage of the US population in Census 2000. The major steps of the A.C.E. are housing unit matching and person matching. In the housing unit phase, housing units within the sample block clusters were listed and matched to the January 2000 version of DMAF. The address for housing units in the A.C.E. and the census housing units in the block clusters were computer matched. The results of the computer matching and additional information were loaded into a clerical matching support database called the Matching Review and Coding System (MaRCS) which was utilized by the clerical matchers. Before follow-up clerical matching was followed by a technician review and an analyst review. Then non-matches, possible matches, possible duplicates and selected matches were sent for follow-up interview. Using the information obtained during the follow-up, an after follow-up match code was assigned clerically for cases sent to the field. Clerical matchers were allowed to make changes to an A.C.E. address within the HUMaRCS system.

A.C.E. addresses were listed using the A.C.E. Independent Listing Book (ILB). Mobile homes were listed in different sections of the ILB depending on whether they were in parks or not in parks. Mobile homes not in parks were listed in the same Listing Page section as one family houses. Whereas, mobile homes in parks were listed in a separate Mobile Home Park Page section. A.C.E. listers were instructed to complete only one line in the Listing Page section for the park office or owner's/manager's home. The Mobile Home Park Page section contains address information for a mobile home park as well as address information for individual trailer/lot. The address information of an address in a mobile home park used for matching was extracted from these two sets of address information

using a complex algorithm. Roughly speaking, the algorithm first looked into the individual trailer/lot address fields to extract address information. If these fields did not contain sufficient information for an address, then additional information was extracted from the mobile home park address fields. For example, the individual trailer/lot address contains only a lot number such as Lot 1 and the mobile home park address is 123 4th street. Then unit number will come from the individual trailer/lot address, and the house number and street name will come from the park address.

IV. Questions to be Answered and Methodology

This study analyzes coverage of mobile homes and investigates addresses of mobile homes in parks.

1. What are the housing unit non-match rates and P-sample person nonmatch rates for mobile homes, in parks and not in parks.
 - a. **Methodology**

Addresses in mobile home parks (TOA=4) and not in parks (TOA=3) will be identified from the ACE housing unit address files. Then housing unit nonmatch rates for mobile homes in parks, mobile homes not in parks and other types of addresses will be computed and analyzed using the final housing unit data. We will consider these variables in the housing unit analysis: region, urban/rural, type of enumeration area. P-sample person nonmatch rates will also be computed and analyzed. We will consider these variables in the person analysis: region, urban/rural, type of enumeration area, race/Hispanic groups, and sex/age groups.
 - b. **Limitation**

See V.
 - c. **Processing Requirements**
 - (1) **Programming and Computer**

The data used in this study will be from

 - HUMaRCS files (after final housing unit stage) and PERMarcs files,
 - ACE sample design file,
 - DMAF files,
 - Data extracted from HCUF files for ACE
 - Missing data files.

These files will be provide by DSSD and are expected to be available in July, 2001. Addresses in mobile home parks will be extracted. Mobile home parks remained non-matched after the stage of BFC will also be extracted. NPC will provide access to the ILB.

2. How did the mobile home park address, generated from the ACE ILB keyed output, affect matching? For addresses in mobile home parks that remained nonmatch after computer and clerical matching, how often did the ACE ILB keying output address need to be changed manually to obtain a match.

a. Methodology

The universe of mobile home park in non-relisted clusters will be identified from the ACE housing unit address files (There are 766 parks).

- We will compute the number of parks matched before HUFU by computer, by clerk, by technician and by analyst. We will also compute the number of parks matched after HUFU. These computations will be done for all parks and for those parks recorded an address line changed during the housing unit matching.
- Those parks which were neither matched by computer nor matched clerically will be identified. (There are 178 of them). For these parks, the ACE ILB will be pulled and reviewed along with any technician and/or analyst matching results. For these parks, we will analyze the matching result in the technician/analyst stage, compare the street address and the mobile home parks address, analyze the number of address changes made to obtain a match, analyze mobile home parks that remained nonmatch for HUFU, but could have been matched if the mobile home park address had been changed per the ACE ILB.

b. Limitation

See V.

c. Processing Requirements

(1) Programming and Computer

The data used in this study will be from

- HUMaRCS files,
- ACE sample design file,
- HCUF files.

These files will be provide by DSSD and are expected to be available in July, 2001. Addresses in mobile home parks will be extracted. Mobile home parks remained non-matched after the stage of BFC will also be extracted. NPC will provide access to the ILB.

V. Limitations

DMAF does not contain information to identify addresses of mobile homes. The analysis

can only performed for A.C.E. addresses. We may not be able to perform clerical review of ILB for mobile home parks due to time constrain.

VI. Milestone Schedule

Activity	Start Date	End Date
1. Develop Study Plan	03/01/00	06/30/00
2. Specify Data Needs	03/01/00	06/30/00
3. Specify Other Activities	03/01/00	06/30/00
4. Finalize Study Plan	06/01/00	06/30/00
5. Conduct <i>A.C.E.</i>	09/07/99	05/22/01
6. Delivery of the Data	07/01/01	07/10/00
7. Start Analysis	07/01/01	10/01/01
8. Start/End First Draft of the Report	10/01/01	12/31/01
9. Roundtable Presentation	12/01/01	12/31/01
10. Start/End Second Draft of the Report	01/01/02	03/31/02
11. Prepare Final Report for Signature	04/01/02	05/31/02
12. Report is Issued	06/01/02	07/31/02

VII. Related Studies/Operations

No related research has been done specifically for mobile home parks.

VIII. References

Accuracy and Coverage Evaluation: The Design Document, Danny R. Childers, DSSD
Census 2000 Procedures and Operations Memorandum Series, Chapter S-DT-1.